

Chart 56063

NM 21/02

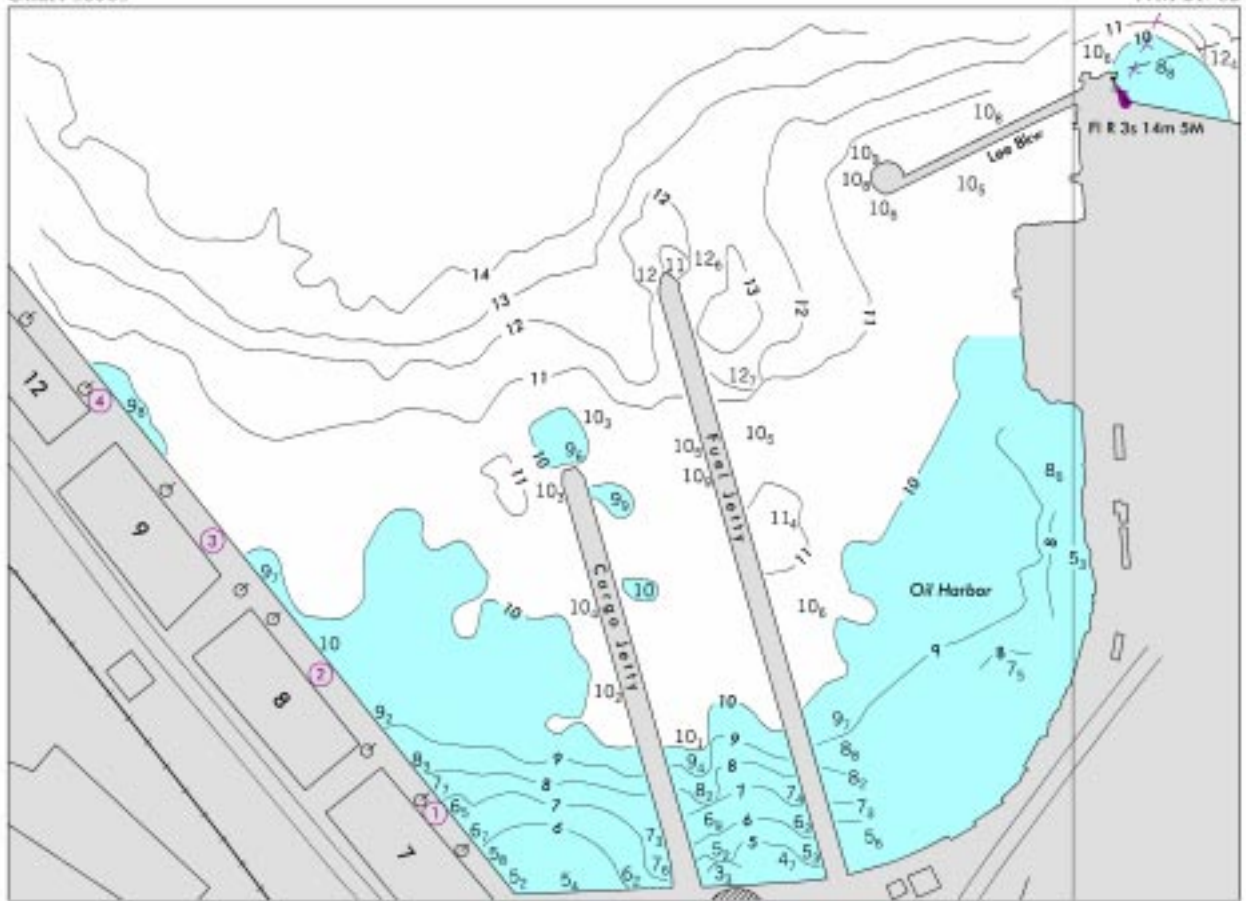


Chart 11301

NM 21/02

BROWNSVILLE AND PORT ISABEL HARBORS CHANNEL DEPTHS							
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF MAR 2002							
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
BRAZOS SANTIAGO PASS:							
ENTRANCE CHANNEL	40.0	38.0	37.0	1-02	300	1.7	44
LAGUNA MADRE CHANNEL	36.0	41.0	35.0	12-01	250	2.5	42
BROWNSVILLE SHIP CHANNEL:							
JUNCTION BASIN TO BOCA							
CHICA PASSING BASIN	39.0	40.0	40.0	12-01	250	3.5	42
BOCA CHICA PASSING							
BASIN TO GOOSE I.							
PASSING BASIN	39.0	41.0	38.0	12-01	250	4.7	42
GOOSE I. PASSING							
BASIN TO BROWNSVILLE							
TURNING BASIN	42.0	43.0	42.0	12-01	300	2.4	42
BROWNSVILLE TURNING BASIN	31.0	36.0	35.0	12-01	500-1200	1.7	42-36
PORT ISABEL CHANNEL:							
JUNCTION TO TURNING BASIN							
(INCLUDING WIDENER AT JUNCTION)	36.0	36.0	34.0	2-02	200	1.0	36
PORT ISABEL TURNING BASIN	35.0	35.0	34.0	2-02	1000	0.2	36
CUT OFF CHANNEL	36.0	36.0	36.0	2-02	200	0.9	36
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION							

Chart 11302 (Side B)

NM 21/02

BROWNSVILLE AND PORT ISABEL HARBORS CHANNEL DEPTHS							
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF MAR 2002							
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
BRAZOS SANTIAGO PASS:							
ENTRANCE CHANNEL	40.0	38.0	37.0	1-02	300	1.7	44
LAGUNA MADRE CHANNEL	36.0	41.0	35.0	12-01	250	2.5	42
BROWNSVILLE SHIP CHANNEL:							
JUNCTION BASIN TO BOCA							
CHICA PASSING BASIN	39.0	40.0	40.0	12-01	250	3.5	42
BOCA CHICA PASSING							
BASIN TO GOOSE I.							
PASSING BASIN	39.0	41.0	38.0	12-01	250	4.7	42
GOOSE I. PASSING							
BASIN TO BROWNSVILLE							
TURNING BASIN	42.0	43.0	42.0	12-01	300	2.4	42
BROWNSVILLE TURNING BASIN	31.0	36.0	35.0	12-01	500-1200	1.7	42-36
PORT ISABEL CHANNEL:							
JUNCTION TO TURNING BASIN							
(INCLUDING WIDENER AT JUNCTION)	36.0	36.0	34.0	2-02	200	1.0	36
PORT ISABEL TURNING BASIN	35.0	35.0	34.0	2-02	1000	0.2	36
CUT OFF CHANNEL	36.0	36.0	36.0	2-02	200	0.9	36
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION							

Chart 11305

NM N21/02

CORPUS CHRISTI CHANNEL DEPTHS Tabulated from surveys by the Corps of Engineers - Report of April 2002								
Controlling depths from seaward in feet at mean lower low water (MLLW)						Project Dimensions		
Name of channel	Left Outside Quarter	Left Inside Quarter	Right Inside Quarter	Right Outside Quarter	Date of Survey	Width (Feet)	Length (Nautical Miles)	Depth MLLW (Feet)
Aransas Pass Outer Bar	48	48	48	43	3-02	700-600	2.42	47
Jetty Channel to Cline Point	47	46	45	43	3-02	600	1.11	47-45
Inner Basin of Harbor Island	40	46	44	39	2-02	600-1559	0.5	45
Cline Point to West End Humble Oil Co. Basin	46	46	46	42	2-02	600	0.5	45
Thence to Corpus Christi	38	42	44	39	10-01	600-300	17.9	45
Channel to La Quinta	46	46	45	43	2-02	300-400	4.7	45
NOTE: CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION								

Chart 11309

NM 21/02

CORPUS CHRISTI CHANNEL DEPTHS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF APR 2002								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
ARANSAS PASS OUTER BAR	46.0	48.0	48.0	43.0	3-02	700-600	2.42	47
JETTY CHANNEL TO CLINE POINT	47.0	46.0	45.0	43.0	3-02	600	1.11	47-45
INNER BASIN AT HARBOR ISLAND	40.0	46.0	44.0	39.0	2-02	600-1559	0.5	45
CLINE POINT TO WEST END HUMBLE OIL CO. BASIN	46.0	46.0	46.0	42.0	2-02	600	0.5	45
THENCE TO CORPUS CHRISTI	38.0	42.0	44.0	39.0	10-01	600-300	17.9	45
CHANNEL TO LA QUINTA	46.0	46.0	45.0	43.0	2-02	300-400	4.7	45
TURNING BASIN	48.0	47.0	47.0	46.0	2-02	1200	.30	45
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION								

Chart 11310

NM N21/02

CORPUS CHRISTI CHANNEL DEPTHS Tabulated from surveys by the Corps of Engineers - Report of April 2002								
Controlling depths from seaward in feet at mean lower low water (MLLW)						Project Dimensions		
Name of channel	Left Outside Quarter	Left Inside Quarter	Right Inside Quarter	Right Outside Quarter	Date of Survey	Width (Feet)	Length (Nautical Miles)	Depth MLLW (Feet)
Aransas Pass Outer Bar	48	48	48	43	3-02	700-600	2.42	47
Jetty Channel to Cline Point	47	46	45	43	3-02	600	1.11	47-45
Inner Basin of Harbor Island	40	46	44	39	2-02	600-1559	0.5	45
Cline Point to West End Humble Oil Co. Basin	46	46	46	42	2-02	600	0.5	45
Thence to Corpus Christi	38	42	44	39	10-01	600-300	17.9	45
Channel to La Quinta	46	46	45	43	2-02	300-400	4.7	45
NOTE: CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION								

SECTION I

NM 21/02

Chart 11311

NM 21/02

CORPUS CHRISTI CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF MAR 2002								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
WEST END OF HUMBLE OIL CO. BASIN TO CORPUS CHRISTI	38.0	42.0	44.0	39.0	10-01	600-300	17.9	45
CORPUS CHRISTI:								
TURNING BASIN	43.0	46.0	46.0	40.0	2-02	300-800	1.1	45
INDUSTRIAL CANAL	42.0	44.0	46.0	43.0	2-02	400	0.5	45
AVERY POINT								
TURNING BASIN	41.0	44.0	44.0	41.0	2-02	400-975	0.4	45
CHEMICAL TURNING BASIN	40.0	46.0	44.0	40.0	2-02	400-1200	0.4	45
TULE LAKE CHANNEL	44.0	44.0	44.0	40.0	2-02	200-400	3.3	45
TULE LAKE TURNING BASIN	43.0	44.0	45.0	40.0	2-02	1200-300	0.4	45
CHANNEL TO VIOLA	45.0	46.0	45.0	40.0	2-02	300-200	1.5	45
VIOLA TURNING BASIN	42.0	46.0	45.0	40.0	2-02	700-900	0.3	45
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION								

Chart 11312

NM 21/02

CORPUS CHRISTI CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF APRIL 2002								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
ARANSAS PASS OUTER BAR	48.0	48.0	48.0	43.0	3-02	700-600	2.42	47
JETTY CHANNEL TO CLINE POINT	47.0	46.0	45.0	43.0	3-02	600	1.11	47-45
INNER BASIN OF HARBOR ISLAND	40.0	46.0	44.0	39.0	2-02	600-1559	0.5	45
CLINE POINT TO WEST END HUMBLE OIL CO. BASIN	46.0	46.0	46.0	42.0	2-02	600	0.5	45
THENCE TO CORPUS CHRISTI	38.0	42.0	44.0	39.0	10-01	600-300	17.9	45
CHANNEL TO LA QUINTA	46.0	46.0	45.0	43.0	2-02	300-400	4.7	45
NOTE: CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION								

Chart 11316

NM 21/02

MATAGORDA SHIP CHANNEL							
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF APR 2002							
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
SEA BAR AND JETTY CHANNEL	41.0	41.0	41.0	10-01	300	3.21	38
THENCE TO LIGHT 48	33.0	36.0	33.0	2-02	300-200	10.84	36
THENCE TO LIGHT 76	15.0	28.0	27.0	1-02	200	7.42	36
THENCE TO POINT							
COMFORT TURNING BASIN	38.0	37.0	36.0	1-02	200-399	0.98	36
TURNING BASIN	38.0	38.0	38.0	10-01	1000	0.17	36
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION							

Chart 11317

NM 21/02

MATAGORDA SHIP CHANNEL							
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF APR 2002							
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
SEA BAR AND JETTY CHANNEL	41.0	41.0	41.0	10-01	300	3.21	38
THENCE TO LIGHT 48	33.0	36.0	33.0	2-02	300-200	10.84	36
THENCE TO LIGHT 76	15.0	28.0	27.0	1-02	200	7.42	36
THENCE TO POINT COMFORT TURNING BASIN	38.0	37.0	36.0	1-02	200-399	0.98	36
TURNING BASIN	38.0	38.0	38.0	10-01	1000	0.17	36
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION							

Chart 11318

NM N21/02

CORPUS CHRISTI CHANNEL DEPTHS								
Tabulated from surveys by the Corps of Engineers - Report of March, April 2002								
Controlling depths from seaward in feet at mean lower low water (MLLW)						Project Dimensions		
Name of channel	Left Outside Quarter	Left Inside Quarter	Right Inside Quarter	Right Outside Quarter	Date of Survey	Width (Feet)	Length (Nautical Miles)	Depth MLLW (Feet)
Avery Point Turning Basin	41	44	44	41	2-02	400-975	0.4	45
Industrial Canal	42	44	46	43	2-02	400	0.5	45
Corpus Christi Turning Basin	43	46	46	40	2-02	300-800	1.1	45
Corpus Christi Channel	38	42	44	39	10-01	600-300	17.9	45
La Quinta Channel	46	46	45	43	2-02	300-400	4.7	45
La Quinta Turning Basin	48	47	47	48	2-02	1200	0.3	45
NOTE: CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION								

Chart 11322 (Side B)

NM 21/02

FREEPORT HARBOR CHANNEL DEPTHS							
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF APR 2002							
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOW TIDE (MLT)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
CHANNEL FROM DEEP WATER TO SEAWARD END OF JETTY	43.0	44.0	41.0	3-02	400	3.7	47
JETTY CHANNEL	42.0	44.0	42.0	3-02	400	1.2	45
LOWER TURNING BASIN	37.0	41.0	41.0	3-02	750	0.9	45
THENCE TO BRAZOSPORT TURNING BASIN	39.0	43.0	38.0	3-02	400-600	0.4	45
BRAZOSPORT TURNING BASIN	41.0	43.0	41.0	3-02	500-1000	0.2	45
CHANNEL TO UPPER TURNING BASIN	35.0	46.0	43.0	3-02	280-470	0.9	45
BRAZOS HARBOR APPROACH CHANNEL	38.0	39.0	39.0	6-01	200-650	0.5	36
BRAZOS HARBOR TURNING BASIN	36.0	38.0	39.0	6-01	750	0.1	36
UPPER TURNING BASIN	46.0	46.0	47.0	3-02	600-1190	0.2	45
CHANNEL TO STAUFFER TURNING BASIN	17.0	19.0	17.5	11-88	200	1.0	25
STAUFFER TURNING BASIN	18.0	18.0	16.0	11-88	500	0.1	25
INFORMATION IN THIS TABULATION HAS BEEN PROVIDED TO NOAA BY THE U.S. ARMY CORPS OF ENGINEERS. DEPTHS ARE REFERENCED TO A LOCAL DREDGING REFERENCE CALLED MEAN LOW TIDE. FOR AN APPROXIMATE CONVERSION TO MEAN LOWER LOW WATER, ADD 1 FOOT TO EACH DEPTH IN THE TABULATION.							
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION							

SECTION I

NM 21/02

Chart 11323

NM 21/02

GALVESTON BAY ENTRANCE - CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF MAR 2002								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOW TIDE (MLT).						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
ENTRANCE CHANNEL	44.0	47.0	45.0	40.0	11-01	800-1000	7.5	45
OUTER BAR CHANNEL	44.0	46.0	47.0	48.0	11-01	800	1.5	45
INNER BAR CHANNEL	41.0	44.0	44.0	40.0	11-01	800	2.9	45
INFORMATION IN THIS TABULATION HAS BEEN PROVIDED TO NOAA BY THE U.S. ARMY CORPS OF ENGINEERS. DEPTHS ARE REFERENCED TO A LOCAL DREDGING REFERENCE CALLED MEAN LOW TIDE. FOR AN APPROXIMATE CONVERSION TO MEAN LOWER LOW WATER, ADD 1 FOOT TO EACH DEPTH IN THE TABULATION. NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION								

Chart 11324

NM 21/02

GALVESTON BAY AND HOUSTON SHIP CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF MAR 2002								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOW TIDE (MLT)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
GALVESTON HARBOR:								
ENTRANCE CHANNEL	44.0	47.0	45.0	40.0	11-01	800-1000	7.5	45
OUTER BAR CHANNEL	44.0	46.0	47.0	48.0	11-01	800	1.5	45
INNER BAR CHANNEL	41.0	44.0	44.0	40.0	11-01	800	2.9	45
BOLIVAR ROADS CHANNEL	47.0	47.0	46.0	40.0	11-01	800	0.7	45
HOUSTON SHIP CHANNEL:								
BOLIVAR ROADS TO LOWER								
END OF MORGAN PT.	28.0	36.0	40.0	28.0	10-01	400-530	23.4	40
GALVESTON CHANNEL	26.0	28.0	37.0	28.0	11-01	1125-1075	3.5	40
TEXAS CITY CHANNEL	38.0	43.0	44.0	42.0	1-02	400	5.9	40
TEXAS CITY TURNING BASIN	40.0	41.0	43.0	41.0	9-01	1200	0.5	40
INFORMATION IN THIS TABULATION HAS BEEN PROVIDED TO NOAA BY THE U.S. ARMY CORPS OF ENGINEERS. DEPTHS ARE REFERENCED TO A LOCAL DREDGING REFERENCE CALLED MEAN LOW TIDE. FOR AN APPROXIMATE CONVERSION TO MEAN LOWER LOW WATER, ADD 1 FOOT TO EACH DEPTH IN THE TABULATION. NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION								

Chart 11325

NM 21/02

HOUSTON SHIP CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF APR 2002								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOW TIDE (MLT).						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
HOUSTON SHIP CHANNEL: EXXON OIL CO. SLIP								
TO CARPENTERS BAYOU (A)	32.0	39.0	41.0	33.0	3-02	400-525	4.90	40
THENCE TO GREENS BAYOU (B)	38.0	39.0	36.0	31.0	2-02	400-300	4.70	40
GREENS BAYOU CHANNEL (TO FIRST BEND)	25.0	26.0	30.0	37.0	10-01	500-175	0.34	36
THENCE TO HUNTING BAYOU (UPPER BEND)	38.0	42.0	42.0	40.0	12-01	300	1.91	40
TURNING POINT AT HUNTING BAYOU	39.0	42.0	42.0	41.0	6-01	600	0.17	40
THENCE TO SOUTHERN PACIFIC SLIP	38.0	40.0	41.0	37.0	1-02	300	3.04	40
TURNING POINT AT SIMS BAYOU	41.0	41.0	41.0	41.0	1-02	700	0.26	40
THENCE TO HOUSTON TURNING BASIN WHARF 15	37.0	38.0	38.0	37.0	11-01	300	2.69	36
TURNING POINT AT BRADY ISLAND	31.0	33.0	39.0	38.0	6-01	422	0.17	36
HOUSTON TURNING BASIN	36.0	37.0	37.0	35.0	11-01	250-1000	0.70	36
UPPER TURNING BASIN	35.0	37.0	37.0	38.0	11-01	150	0.23	36
A. CHANNEL WIDENS 125 FEET IN LEFT OUTSIDE QUARTER IN VICINITY OF EXXON OIL CO. B. CHANNEL NARROWS IN VICINITY OF THE SHELL OIL CO. SLIP. INFORMATION IN THIS TABULATION HAS BEEN PROVIDED TO NOAA BY THE U.S. ARMY CORPS OF ENGINEERS. DEPTHS ARE REFERENCED TO A LOCAL DREDGING REFERENCE CALLED MEAN LOW TIDE. FOR AN APPROXIMATE CONVERSION TO MEAN LOWER LOW WATER, ADD 1 FOOT TO EACH DEPTH IN THE TABULATION. NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION								

Chart 11327

NM 21/02

HOUSTON SHIP CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF MAR 2002								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOW TIDE (MLT)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
BOLIVAR ROADS TO LOWER END OF MORGAN POINT	28.0	36.0	40.0	28.0	10-01	400-530	23.4	40
INFORMATION IN THIS TABULATION HAS BEEN PROVIDED TO NOAA BY THE U.S. ARMY CORPS OF ENGINEERS. DEPTHS ARE REFERENCED TO A LOCAL DREDGING REFERENCE CALLED MEAN LOW TIDE. FOR AN APPROXIMATE CONVERSION TO MEAN LOWER LOW WATER, ADD 1 FOOT TO EACH DEPTH IN THE TABULATION. NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION								

Chart 11328

NM 21/02

HOUSTON SHIP CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF APR 2002								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOW TIDE (MLT)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
BOLIVAR ROADS TO LOWER END OF MORGAN POINT	28.0	36.0	40.0	28.0	10-01	400-530	23.4	40
LOWER END OF MORGAN PT. TO EXXON OIL CO. SLIP	36.0	40.0	39.0	33.0	3-02	400-525	4.2	40
INFORMATION IN THIS TABULATION HAS BEEN PROVIDED TO NOAA BY THE U.S. ARMY CORPS OF ENGINEERS. DEPTHS ARE REFERENCED TO A LOCAL DREDGING REFERENCE CALLED MEAN LOW TIDE. FOR AN APPROXIMATE CONVERSION TO MEAN LOWER LOW WATER, ADD 1 FOOT TO EACH DEPTH IN THE TABULATION. NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION								

Chart 11329

NM 21/02

HOUSTON SHIP CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF APR 2002								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOW TIDE (MLT).						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
LOWER END OF MORGAN PT. TO EXXON OIL CO. SLIP	36.0	40.0	39.0	33.0	3-02	400-525	4.20	40
EXXON OIL CO. SLIP TO CARPENTERS BAYOU (A)	32.0	39.0	41.0	33.0	3-02	400-525	4.90	40
THENCE TO GREENS BAYOU (B)	38.0	39.0	36.0	31.0	2-02	400-300	4.70	40
A. CHANNEL WIDENS 125 FEET IN LEFT OUTSIDE QUARTER IN VICINITY OF EXXON OIL CO. B. CHANNEL NARROWS IN VICINITY OF THE SHELL OIL CO. SLIP. INFORMATION IN THIS TABULATION HAS BEEN PROVIDED TO NOAA BY THE U.S. ARMY CORPS OF ENGINEERS. DEPTHS ARE REFERENCED TO A LOCAL DREDGING REFERENCE CALLED MEAN LOW TIDE. FOR AN APPROXIMATE CONVERSION TO MEAN LOWER LOW WATER, ADD 1 FOOT TO EACH DEPTH IN THE TABULATION. NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION								

Chart 11332

NM 21/02

SABINE PASS CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF APR 2002								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
SABINE BANK CHANNEL	39	42	43	35	3-02	800	12.8	42
OUTER BAR CHANNEL	37	42	40	38	2-02	800	3.0	42
JETTY CHANNEL	37	41	40	30	3-02	800-500	3.5	40
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION								

Chart 11341

NM 21/02

SABINE PASS CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF APR 2002								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
SABINE BANK CHANNEL	39	42	43	35	3-02	800	12.8	42
OUTER BAR CHANNEL	37	42	40	38	2-02	800	3.0	42
JETTY CHANNEL	37	41	40	30	3-02	800-500	3.5	40
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION								

Chart 11342

NM 21/02

SABINE PASS - SABINE - NECHES CANAL CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF APR 2002								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
SABINE PASS:								
OUTER BAR CHANNEL	37	42	40	38	2-02	800	3.0	42
JETTY CHANNEL	37	41	40	30	3-02	800-500	3.5	40
PASS CHANNEL	21	26	39	24	10-01	500-1150	4.9	40
ANCHORAGE BASIN	32	19	13	6	6-01	1500	0.5	40
PORT ARTHUR SHIP CANAL	34	39	37	31	11-01	500	4.8	40
JUNCTION PORT ARTHUR- SABINE NECHES CANALS	21	31	26	25	11-01	400-1200	1.1	40
ENTRANCE TO PORT ARTHUR TURNING BASINS	31	35	36	33	6-01	282-735	0.2	40
EAST TURNING BASIN	35	36	36	37	6-01	370-547	0.3	40
WEST TURNING BASIN	34	35	37	36	6-01	350-735	0.3	40
CHANNEL CONNECTING WEST BASIN AND TAYLOR BAYOU TURNING BASIN	38	38	37	35	6-01	200-350	0.5	40
TAYLOR BAYOU TURNING BASIN	37	39	40	35	6-01	90-1233	0.6	40
SABINE-NECHES CANAL:								
PORT ARTHUR TO NECHES RIVER	23	34	32	23	11-01	400	9.6	40
NECHES RIVER TO SABINE RIVER	26	28	27	26	10-01	200	3.9	30
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION								

Chart 11343

NM 21/02

SABINE AND NECHES RIVERS CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF MAR 2002								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
SABINE-NECHES CANAL :								
PORT ARTHUR TO NECHES RIVER	23	34	32	23	11-01	400	9.6	40
NECHES RIVER TO SABINE RIVER	26	28	27	26	10-01	200	3.9	30
NECHES RIVER:								
MOUTH TO SMITH BLUFF	27	30	35	33	12-01	400	8.3	40
TURNING BASIN AT DEER BAYOU	38	38	36	36	12-01	700	0.2	40
TURNING BASIN AT SMITHS BLUFF	38	35	35	34	12-01	1400-400	0.2	40
SMITH BLUFF TO BEAUMONT	30	39	38	31	12-01	400	7.5	40
TURNING BASIN (30°02'12"N, 94°01'58"W)	37	40	40	38	12-01	400-1306	0.2	40
CHANNEL EXTENSION	33	35	32	28	6-01	350	0.2	36
MANEUVERING AREA (30°04'44"N, 94°05'05"W)	30	39	39	33	12-01	400-1000	0.6	40
BEAUMONT TURNING BASIN	37	37	38	37	12-01	400-535	0.2	34
TURNING BASIN EXTENSION	32	35	32	28	12-01	300	0.2	34
THENCE TO TRINITY INDUSTRIES	18	23	21	17	12-01	200	0.6	30
SABINE RIVER:								
MOUTH TO ORANGE MUNICIPAL SLIP	26	29	30	26	11-01	200	6.6	30
ORANGE TURNING BASIN	26	26	29	28	11-01	200 - 1400	0.6	30
ORANGE MUNICIPAL SLIP	26	30	24	23	11-01	150-200	0.5	30
ORANGE MUNICIPAL SLIP TO OLD HIGHWAY BRIDGE SITE	26	29	30	29	11-01	200	2.2	30
CHANNEL AROUND ORANGE HARBOR ISLAND	13	16	20	18	11-01	150-200	1.6	25
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION								

SECTION I

NM 21/02

Chart 11524

NM 21/02

CHARLESTON HARBOR, COOPER RIVER AND SHIPYARD RIVER TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS-REPORT OF OCT 2001 AND SURVEYS TO MAR 2002								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
FORT SUMTER RANGE	42.6	41.6	42.8	41.9	2-99	1000	9.0	47
MOUNT PLEASANT RANGE	41.2	44.9	45.6	44.4	8-00	1000-600	1.6	45
REBELLION REACH	40.6	42.7	43.0	31.2	8,9-00;9-01	600	1.4	45
SHUTES-FOLLY REACH	46.4	48.3	48.2	47.6	9-01	600-800	1.3	45
HORSE REACH	48.4	48.5	48.5	48.3	9-01	800	0.5	45
CUSTOMHOUSE REACH	34.3	39.8	47.4	44.2	10-01	1385	0.2	45
SOUTH CHANNEL	24.4	24.8	24.5	A24.3	10-96	600-1000	3.1	45
HOG ISLAND REACH	38.3	41.8	38.6	34.1	8,9-00;11-01	600-1300	1.5	45
DRUM ISLAND REACH	40.1	40.7	44.9	38.2	11-01	600-1300	0.7	45
TOWN CREEK LOWER REACH	37.9	39.1	38.3	36.3	10-01	400-450	1.1	45
TURNING BASIN	34.7	34.3	34.1	33.7	10-01	250	0.25	45
TOWN CREEK UPPER REACH	48.0	39.4	40.4	45.9	12-94, 9-00	250	1.0	45
MYERS BEND	35.2	42.9	45.3	36.5	11-01	600-900	0.4	45
DANIEL ISLAND REACH	41.9	42.2	41.8	36.6	11-01	600-800	1.2	45
DANIEL ISLAND BEND	38.4	43.5	42.6	43.6	11-01	700	0.4	45
CLOUTER CREEK REACH	38.3	42.3	42.4	35.5	7,8-00,2-02	600	0.9	45
NAVY YARD REACH	33.9	41.4	41.3	32.7	7,8-00	600-700	1.1	45
NORTH CHARLESTON REACH	35.4	41.9	42.3	38.9	7-00	500-600	1.0	45
FILBIN CREEK REACH	33.5	40.5	41.3	39.0	7-00	500	0.6	45
PORT TERMINAL REACH	35.1	42.7	42.1	40.7	7-00,3-02	600	0.7	45
ORDNANCE REACH	41.6	41.0	42.3	40.4	3-02	300	0.3	45
ORDNANCE REACH TURNING BASIN	44.1	39.9	38.4	36.1	7-00,3-02	1100	0.26	45
WANDO RIVER								
LOWER REACH	43.7	47.4	46.8	38.1	10-01	1500-400	1.3	45
UPPER REACH	44.0	44.2	44.9	44.0	10-01	400-850	0.74	45
TURNING BASIN	44.2	45.1	49.3	49.8	10-01	550	0.3	45
SHIPYARD CREEK								
MAIN CHANNEL	26.2	27.4	29.0	27.2	8,10-00	1200-300	1.0	30
LOWER TURNING BASIN	37.9	38.9	40.0	40.8	8,10-00	700	0.2	38
UPPER TURNING BASIN	22.0	23.4	23.7	24.7	8,10-00	600	0.15	30
COOPER RIVER								
RANGE A	38.7	37.4	38.3	38.9	7,8-98;12-99	400-1350	1.02	35
RANGE B	20.5	25.2	36.4	37.0	12-99	VARIES	0.74	35
RANGE C	20.6	26.1	38.3	36.1	7,8-98;12-99;1-00	VARIES	0.76	35
RANGE D	30.2	37.4	37.8	37.1	2-00	VARIES	0.58	35
RANGE E	32.1	34.8	38.2	36.3	1-95	VARIES	0.38	35
RANGE F	25.0	36.6	35.2	33.9	1-95	VARIES	0.29	35
A. ALONG CHANNEL EDGE. NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION								

Chart 14975

NM 21/02

SUPERIOR HARBOR TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO NOV 2001								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT GREAT LAKES LOW WATER DATUM (LWD)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH LWD (FEET)
SUPERIOR ENTRY	A	A	A	A				
1	28.9	31.7	31.9	B23.7	11-2001	600-1100	.18	31
2	27.6	30.7	31.0	29.0	11-2001	415-1100	.15	30
3	30.2	31.4	29.2	27.0	11-2001	415	.08	29
4	29.6	31.0	28.6	25.4	6-2001	415-430	.08	28
5	25.3	28.8	29.5	26.7	6-2001	430-840	.08	27
SUPERIOR HARBOR BASIN	C20.6	21.3	23.3	20.5	5,6-2001	600-2000	1.21	27
ALLOUEZ BAY CHANNEL	21.7	23.6	24.0	23.7	6-2001	400-900	.44	27
SUPERIOR FRONT CHANNEL	24.3	27.0	26.8	25.4	5-2001	600	2.32	27
EAST GATE BASIN (SOUTH)	26.1	26.5	26.5	26.7	5,11-2001	600-3200	.57	27
A. CHANNEL DIVIDED INTO QUARTERS WHEN ENTERING FROM LAKE. B. SHOALING TO 17.0 FT AT 46°42'40.9" N - 92°00'34.2" W. C. SHOALING TO 3.5 FT WITHIN 320 FT FROM BUOY 1 AT 46°42'17.85" N, 92°01'36.25" W. NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION								

SECTION I

NM 21/02

Chart 14975

NM 21/02

DULUTH HARBOR TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO NOV 2001								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT GREAT LAKES LOW WATER DATUM (LWD)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH LWD (FEET)
DULUTH ENTRY	A	A	A	A				
1	28.8	32.2	32.8	30.4	5-2001	245-1000	.13	32
2	27.9	33.8	33.4	25.8	5-2001	245	.08	31
3	29.6	32.8	32.5	27.3	5-2001	245	.07	30
4	31.8	31.6	31.4	28.6	5-2001	245	.07	29
5	30.0	31.9	32.6	25.2	5-2001	245-480	.07	28
DULUTH HARBOR BASIN								
NORTHERN SECTION	24.2	24.9	27.1	24.9	4,9-2001	1100-2700	.64	28
SOUTHERN SECTION	24.4	B25.9	25.8	23.8	4,11-2001	1200-2700	.91	27
EAST GATE BASIN (NORTH)	26.3	26.6	25.8	24.5	6,11-2001	1500-3300	.33	27
WEST GATE BASIN	25.4	28.1	27.0	23.5	6-2001	400-850	.66	27
HOWARDS BAY	22.9	24.1	24.1	29.6	6-2001	100-750	.99	27
NORTH CHANNEL								
EASTERN SECTION	19.8	19.6	22.9	C13.8	7-2000;6,8-2001	400	1.66	27
WESTERN SECTION	20.9	21.1	20.9	15.5	10-2001	400	.59	21
21ST AVE WEST CHANNEL	D6.3	D21.1	D21.1	D16.6	6-71;10-91	200	.33	20
SOUTH CHANNEL								
EASTERN SECTION	21.8	23.5	24.9	24.6	6,8-2001	400-800	.74	27
WESTERN SECTION	22.0	22.9	23.6	22.2	9,10-2001	400	.83	23
CROSS CHANNEL	20.7	27.3	27.9	18.7	8-2001	1300	.33	27
UPPER CHANNEL	21.0	23.6	22.0	E19.6	10-2001	500	1.00	23
MINNESOTA CHANNEL								
EASTERN SECTION	F20.4	21.7	G22.8	H19.9	10,11-2001	600	.95	23
WESTERN SECTION	7.6	15.3	10.4	I 7.8	10-2000;11-2001	200	2.39	20
A. CHANNEL DIVIDED INTO QUARTERS WHEN ENTERING FROM LAKE . B. SHOALING TO 12.0 FT IN THE VICINITY OF WRECK AT 46°45'30.3"N - 92°05'29.7"W. C. SHOALING TO UNKNOWN DEPTH BEHIND THE 12 FT CURVE FROM 46°45'02.5"N - 92°06'08.8"W TO 46°45'07.2"N - 92°06'18.6"W D. RECENT SURVEYS NOT AVAILABLE FOR 21ST AVE WEST CHANNEL. E. SHOALING TO 17.0 FT AT 46°43'43.6"N - 92°08'40.1"W. F. SHOALING TO 6.2 FT WITHIN 100 FT FROM 46°43'13.1"N - 92°08'33.6"W. G. SHOALING TO 21.0 FT AT 46°43'41.5"N - 92°08'37.1"W. H. SHOALING TO 8.7 FT IN THE OUTSIDE HALF OF THE QUARTER FOR THE NORTHERN 1075 FT OF THE REACH. I. SHOALING TO 2.2 FT IN THE OUTSIDE HALF OF THE QUARTER. NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION.								

Chart 25670

NM 21/02

BAHIA DE SAN JUAN CHANNEL DEPTHS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO SEP 2001 AND REPORT OF MAY 1996								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
BAR CHANNEL	49.1	48.7	49.3	48.3	9-01	800-1000	0.5	45
ANEGADO CHANNEL	41.2	41.8	41.7	41.2	9-01	800-1000	1.5	36
SAN ANTONIO APPROACH CHANNEL	35.7	36.6	36.6	31.7	6-96	500-2200	0.46	35
SAN ANTONIO CHANNEL	32.7	34.3	35.4	33.0	6-96	500-870	0.68	30
GRAVING DOCK CHANNEL	30.0	33.0	33.8	30.5	6-96	400-1200	0.87	30
ARMY TERMINAL CHANNEL	41.1	42.3	42.2	40.6	9-01	350-975	1.0	36
PUERTO NUEVO CHANNEL (TO A POINT IN 18°26'21.9"N., 66°05'21.4"W.)	30.2	34.0	33.7	32.9	6-96	300	1.0	32
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION								

Chart 95276

NM 21/02

CAUTION
 Depths of up to 3.3 meters less than
 charted may exist within the area.